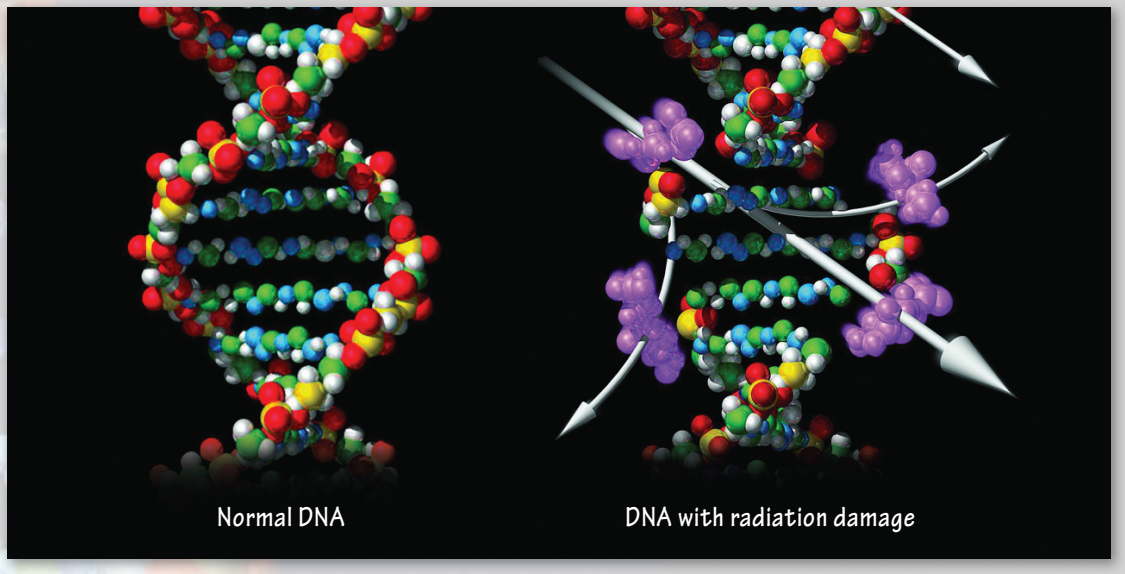
Method for Assaying Clustered DNA Damages



Technology

Describes a method for detecting and quantifying clustered DNA damages induced by exposure of the biological organism to a DNA-damaging agent.

Applications

The technology can be used for evaluating the biological impact of exposure to ionizing radiation and monitoring the efficacy of radiation and chemotherapy protocols. In addition, the assay provides a method for assessing radiation damage to humans, crops, livestock and wildlife following a nuclear mishap.

Competitive Advantage

The technique provides a sensitive reliable method of detecting and quantifying clustered damages in genomic DNAs or mixtures of DNAs of unknown DNA sizes. The method can be used to evaluate the biological impact of both low and high doses of radiation as well as other potential DNA damaging or protective agents.

Reference: Clustered DNA damages induced in isolated DNA and in human cells by low doses of ionizing radiation. Sutherland B.M., Bennett P.V., Sidorkina O. and Laval J. Proceedings of the National Academy of Science USA 97, 103-108 (2000).

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Available for Licensing
- Non-Exclusive
- Exclusive

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